

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **11-275016**

(43)Date of publication of application : **08.10.1999**

(51)Int.Cl. **H04B 10/08**
H04B 3/46
H04J 14/00
H04J 14/02

(21)Application number : **11-028031**

(71)Applicant : **LUCENT TECHNOL INC**

(22)Date of filing : **05.02.1999**

(72)Inventor : **JENNINGS MARK R**
LEONE FRANK SALVATORE
PIMPINELLA RICHARD JOSEPH

(30)Priority

Priority number : **98 19213** Priority date : **05.02.1998** Priority country : **US**

(54) SYSTEM AND METHOD FOR MONITORING OPTICAL LINK AND FOR SPECIFYING STATE OF THE LINK

(57)Abstract:

PROBLEM TO BE SOLVED: To specify or detect the soundness of an optical link by allowing a 2nd device to monitor the optical link, based on the received optical signal having the first wavelength and then detect the state of the optical link.

SOLUTION: An optical signal having wavelength λ_1 is produced by a laser site source 120 and supplied to one of inputs of a WDM 124. Another optical signal having wavelength λ_2 is received from a transmitter 102 and supplied to the other input of the WDM 124. Both optical signals of λ_1 and λ_2 are transmitted to an optical link 106 via the WDM 124. A transmitter 114 produces an optical signal having wavelength λ_3 , which is supplied to one of inputs of a WDM 130. The optical signals of λ_1 and λ_3 are transmitted to a central station via the WDM 130 and then to a system optical link 108. In

